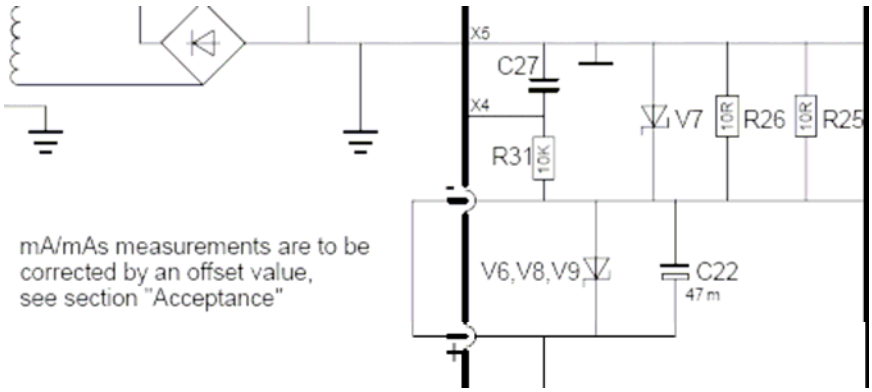
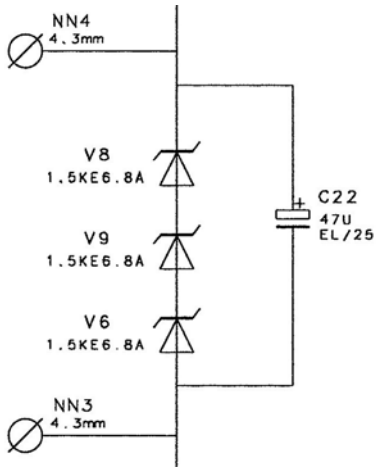
Adaptation or normal operation of Optimus RAD – RF – C generators with open mAs shortlink at EG100

If no shortlink is inserted at the EG 100 4mm plugs NN3 – NN4 (these connection names do not appear in any documentation) the Z-diodes across the shortlink (see cut out of drawing Z1-4.2 ...

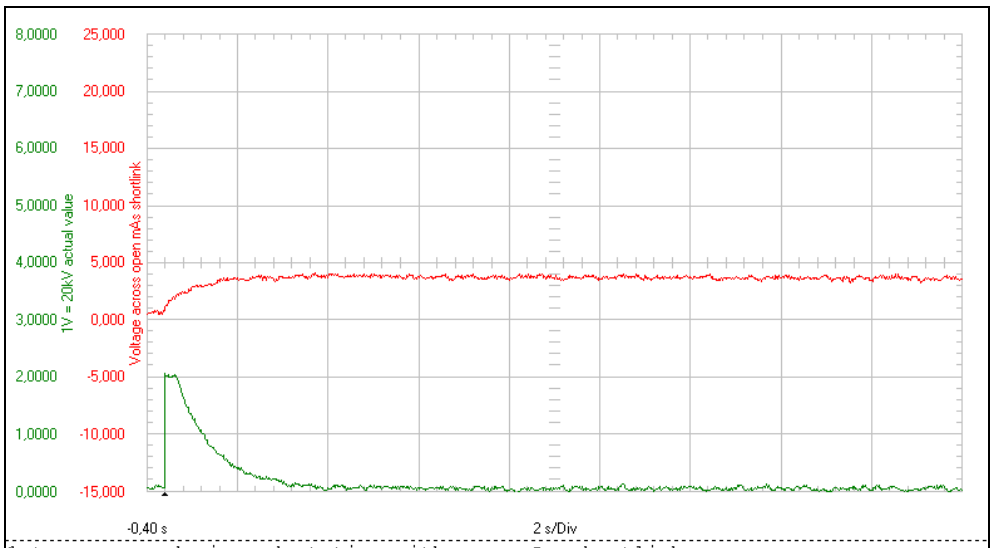


... and the details)

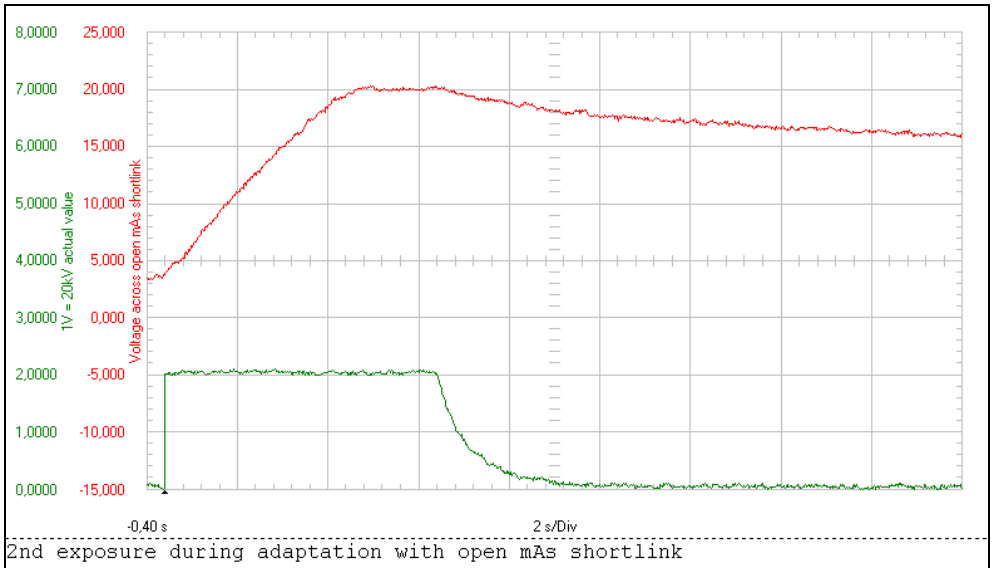


keep the ground to cathode current measuring circuit closed.

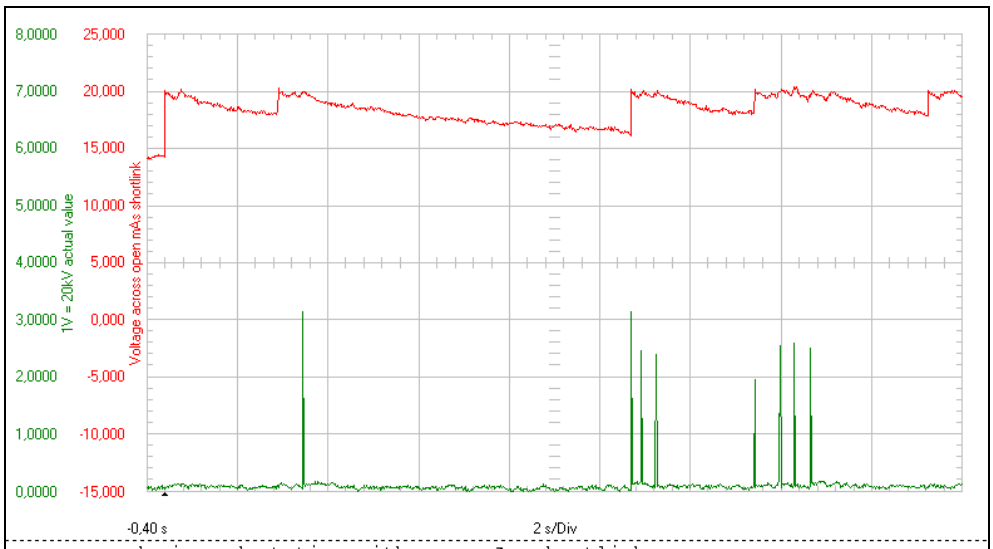
A max voltage of 20.4 Volts (3 x 6.8V) is possible.
The following oscilloscope screenshots taken during a large focus adaptation with SRO 2550 show that the 20.4 V level will not be increased.
No errors or warnings were logged during the adaptation process of small and large focus (250 exposures in total).
mA tables (mAs jumper inserted or without mAs jumper) have been compared after adaptation. Both were identical.



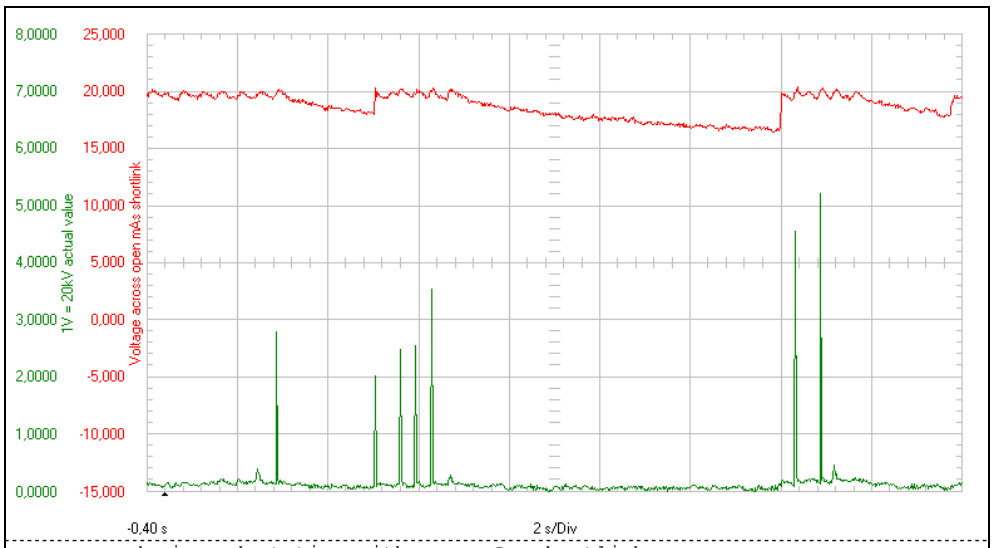
1st exposure during adaptation with open mAs shortlink
SRO 2550 large focus opmAs01.pcx
ch1 = green = kV actual value EZ130 X3
ch2 = red = voltage across open mAs shortlink EG100



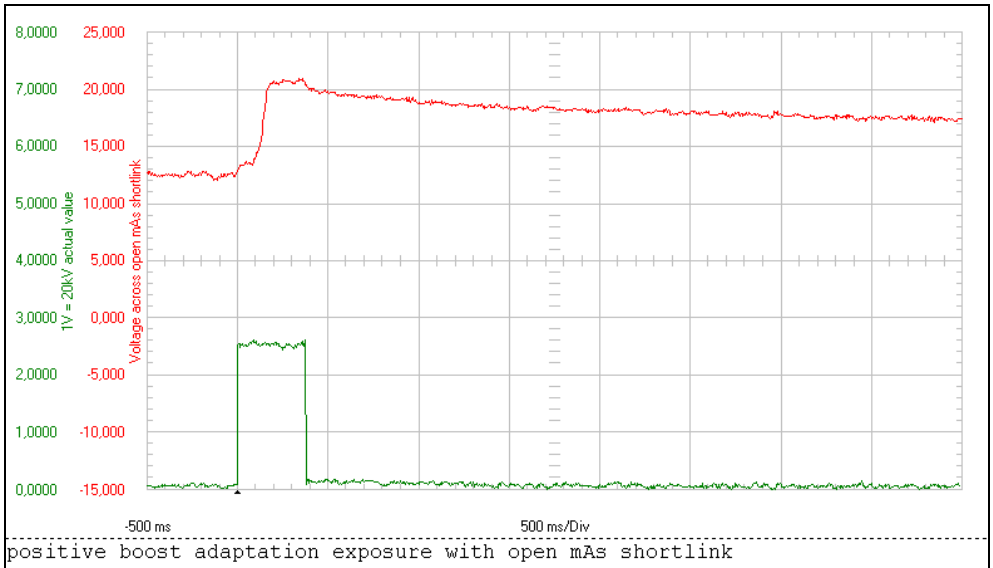
2nd exposure during adaptation with open mAs shortlink
SRO 2550 large focus opmAs02.pcx
ch1 = green = kV actual value EZ130 X3
ch2 = red = voltage across open mAs shortlink EG100



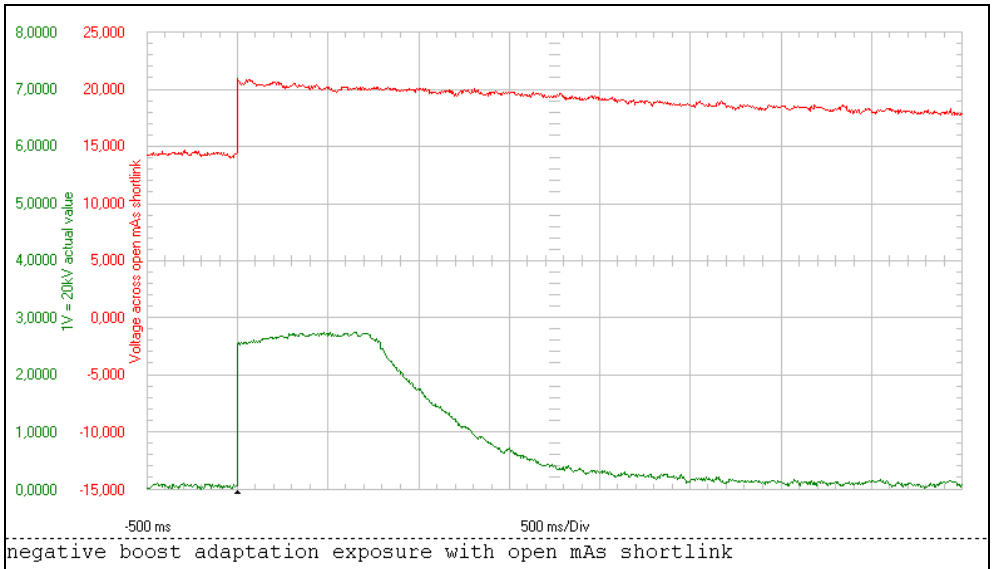
exposures during adaptation with open mAs shortlink
SRO 2550 large focus opmAs03.pcx
ch1 = green = kV actual value EZ130 X3
ch2 = red = voltage across open mAs shortlink EG100



exposures during adaptation with open mAs shortlink
SRO 2550 large focus opmAs04.pcx
ch1 = green = kV actual value EZ130 X3
ch2 = red = voltage across open mAs shortlink EG100



positive boost adaptation exposure with open mAs shortlink
SRO 2550 large focus opmAs05.pcx
ch1 = green = kV actual value EZ130 X3
ch2 = red = voltage across open mAs shortlink EG100



negative boost adaptation exposure with open mAs shortlink
SRO 2550 large focus opmAs06.pcx
ch1 = green = kV actual value EZ130 X3
ch2 = red = voltage across open mAs shortlink EG100